



Product designation
Product type designation

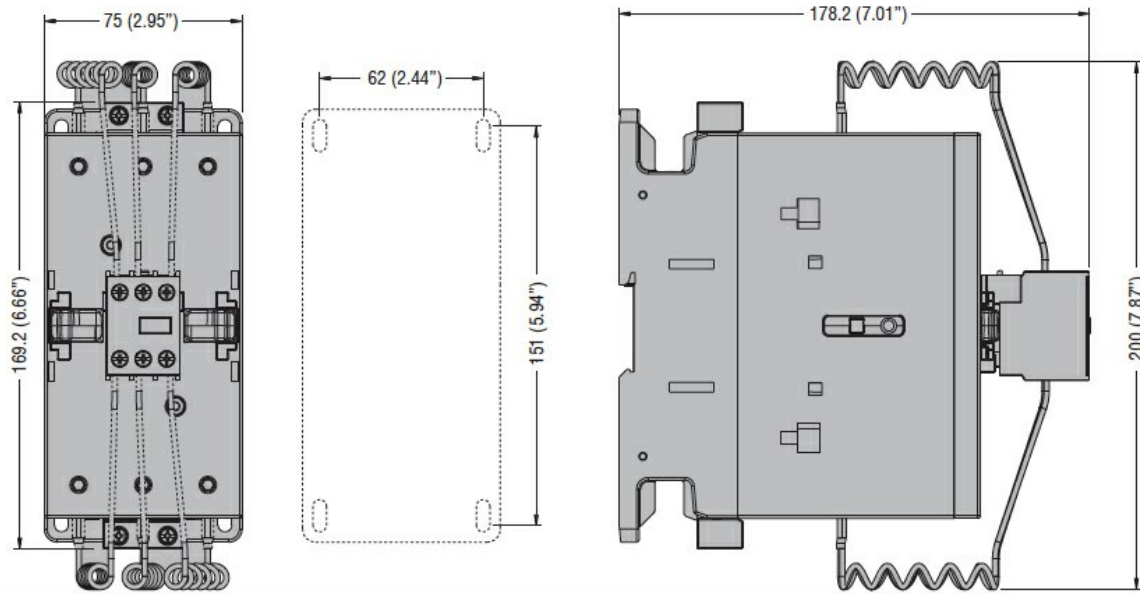
Power contactor
BFK115

Contact characteristics

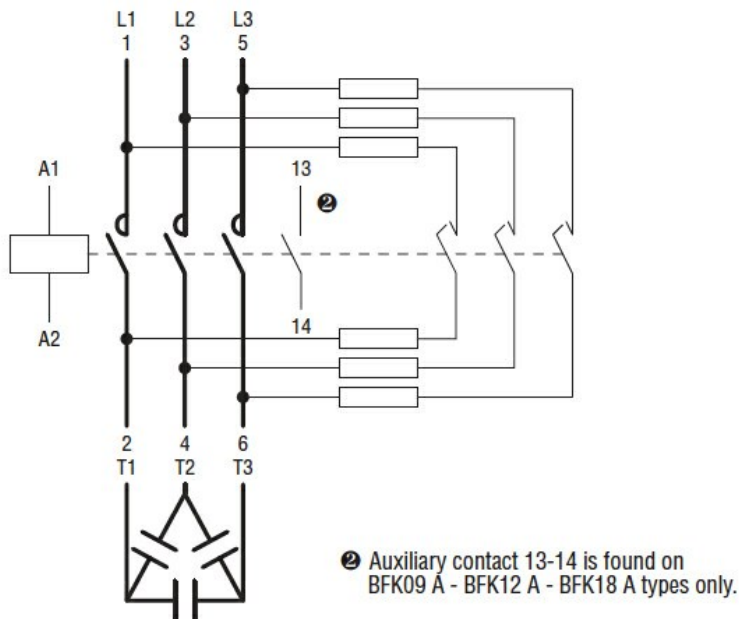
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current I_{th}	A	160
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V kvar	45
	400V kvar	75
	440...480V kvar	85
	690V kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)	A	920
Protection fuse	gG (IEC)	A 160
Making capacity (RMS value)	A	1500
Breaking capacity at voltage	440V A	1200
	500V A	850
	690V A	905
Resistance per pole (average value)	mΩ	0.45
Power dissipation per pole (average value)	I_{th} W	11.5
Tightening torque for terminals	min Nm	6
	max Nm	7
	min lbin	4.4
	max lbin	5.2
Tightening torque for coil terminal	min Nm	0.8
	max Nm	1
	min lbin	0.59
	max lbin	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	2/0
Flexible w/o lug conductor section	min mm ²	1.5
	max mm ²	70
Flexible c/w lug conductor section	min mm ²	1.5

		max	mm²	70
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight		g		2095
Operations				
Mechanical life		cycles		15000000
Electrical life		cycles		1200000
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load		cycles 1200000 cycles 15000000
EMC compatibility		yes		
AC coil operating				
Rated AC voltage at 60Hz		V		48
AC operating voltage		of 60Hz coil powered at 60Hz pick-up		
		min	%Us	80
		max	%Us	110
		drop-out		
		min	%Us	20
		max	%Us	55
Max cycles frequency				
Mechanical operation		cycles/h		1500
Operating times				
Average time for Us control in AC		Closing NO		
		min	ms	16
		max	ms	32
		Opening NO		
		min	ms	9
		max	ms	24
UL technical data				
Rated operational voltage AC (UL)		V		600
General USE				
Contactor		AC current		A 160
Ambient conditions				
Temperature		Operating temperature		
		min	°C	-50
		max	°C	70
		Storage temperature		
		min	°C	-60
		max	°C	80
Max altitude		m		3000
Resistance & Protection				
Pollution degree		3		

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN/BS 60947-1
IEC/EN/BS 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CCC
cULus

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor